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ABSTRACT

This annotated bibliography from the Materials Review and Evaluation Services lists reviewed and evaluated instructional media appropriate for school media centers in the area of mathematics. Entries included on the list were selected from those materials submitted by publishers which received favorable reviews by educators. Materials are arranged by type of media: activity cards, books, books (for teacher use), books (reference), books (supplementary texts), books (workbooks), books (workbooks) with recordings, duplicating masters, films (16mm), filmstrips (silent), filmstrips (sound), games, kits, and tests. Each entry includes author, title, publisher or producer, date of publication, costs, and grade level. (Author/RAO)

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ADVISORY LIST OF INSTRUCTIONAL MEDIA FOR MATHEMATICS

North Carolina State Department of Public Instruction
Raleigh, North Carolina

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Materials Review and Evaluation Services
Division of Educational Media
State Department of Public Instruction

Raleigh, North Carolina
1979-1980 School Year

ADVISORY LIST OF INSTRUCTIONAL MEDIA

FOR

MATHEMATICS

This bibliography includes instructional materials appropriate to the Mathematics program in the schools. The items are listed by type of media. The order of the listing is as follows:

- activity cards
- art prints
- books
- books (for teacher use)
- books (reference)
- books (supplementary texts)
- books with recordings
- books (workbooks)
- books (workbooks) with recordings
- calendars
- charts
- dictionaries
- duplicating masters
- film loops (silent)
- film loops (sound)
- films (16mm)
- filmstrips (silent)
- filmstrips (sound)
- games
- globes
- kits
- manipulative devices
- maps
- measuring tapes
- microforms
- mini-units
- models
- periodicals
- pictures
- posters
- programmed materials
- puzzles
- realia
- recordings (cassette tapes)
- recordings (disc)
- recordings (reel-to-reel tapes)
- reprints
- shortstrips
- slide sets (2"x2")
- slide sets (sound)
- study prints
- tests
- transparencies
- videotapes

Materials on this list were selected from those which publishers have submitted for evaluation. Educators may assume that materials available for purchase not appearing on this list either were not submitted or were considered inappropriate for school purchase. All items included on this bibliography except 16mm films, and some items suggested for inclusion by local school administrative units, are displayed in the Center in Raleigh. The name of a school administrative unit appearing after an annotation indicates that educators in that system reviewed and recommended the item.

At the end of the annotated lists of print and audiovisual materials may be found unannotated lists of materials which have had favorable reviews in other reliable reviewing sources. Additional information may be obtained by writing or calling the Materials Review and Evaluation Center.

In some cases prices were not available. Prices shown are those quoted by publishers and producers, but do not include postage and are subject to change.

PLEASE DO NOT ORDER ITEMS ON THIS LIST FROM THE MATERIALS REVIEW AND EVALUATION CENTER OR FROM THE DIVISION OF TEXTBOOKS. Publishers and producers are listed in a separate directory accompanying the complete set of ADVISORY LISTS OF INSTRUCTIONAL MEDIA. An abbreviated or code name for the publisher/producer appearing in the bibliographic entry on this list appears in the DIRECTORY, where the complete address follows the code name.

Schools may use this list to aid in selection of materials but are in no way restricted to purchasing items on this list.

ACTIVITY CARDS

MIND EXPANDERS. 80 activity cards with 6 tab dividers. Described on Reading List

BOOKS

Devi, Shakuntala. FIGURING: THE JOY OF NUMBERS. Harper, 1977. 157 p. $6.95. Grades 5-12

An enthusiastic approach to the enjoyment of numbers; dedicated author explores properties and patterns of the ten digits (1, 2, 3, 4, 5, 6, 7, 8, 9, 0) which comprise the "alphabet" of math; constantly encouraging number fervor, text explains artifices for performing mental computations--even includes a special chapter on "Tricks and Puzzles"; conversational tone, step-by-step instructions enhance book's readability

Gersting, Judith L., and Joseph E. Kuczkowski. YES-NO; STOP-GO: SOME PATTERNS IN MATHEMATICAL LOGIC. Crowell, 1977. 34 p. $5.95. Grades 1-3

An introduction to logic in picture-book form; the king's engineers design two sets of draw bridges: the "or" bridges for the happy Whiffles, the "and" bridges for the unfriendly Piffles; chart created by the drawbridge guard is used to demonstrate truth tables which the reader is led to use and design for himself; delightful change-of-pace math lesson (Shelby City)

James, Elizabeth, and Carol Barkin. WHAT DO YOU MEAN BY "AVERAGE"? MEANS, MEDIANS, AND MODES. Lothrop, 1978. 60 p. $5.71. Grades 5-9

Story line used to introduce students to mean, median, mode, sampling, percentages, and percentile--terms used in statistics; Jill and her friends, who are trying to get her elected as student body president in Normal City, discover how to conduct a survey, how to select a representative sample for an opinion poll, how to question advertising claims; vocabulary subtly interjected and explained in the plot; amusing, informative approach to a seemingly unimaginative topic; appealing color cover and black-and-white illustrations

Rahn, Joan Elma. THE METRIC SYSTEM. Atheneum, 1977. 79 p. $5.95. Grades 7-12

Easy-to-read, clearly explained presentation of the metric system; concise, well-illustrated treatment draws comparisons between the United States customary system and the metric system, thereby disentangling common misconceptions; appendices provide unit tables, definitions, conversion factors

Ranucci, Ernest R., and Wilma E. Rollins. CURIOSITIES OF THE CUBE. Crowell, 1977. 111 p. $6.95. Grades 9-12

Examines a familiar shape thoroughly in order to disclose everything the reader could conceivably want to know about the cube: constructions, dissections, cross sections, theorems, games, curiosities; not for the mathematically weak at heart, could possibly excite a highly motivated student about the infinitude of mathematical observations; relies heavily on visualization and imagination; appropriate for independent research, math club program topics, or as a change-of-pace lesson guide for the teacher; circulation would have to be encouraged, for it is highly unlikely to be selected as a result of a casual flipping through the pages (Shelby City)

Riedel, Manfred G. WINNING WITH NUMBERS: A KID'S GUIDE TO STATISTICS. Prentice, 1978. 64 p. $6.95. Grades 5-9

Impressive introduction to statistical terms and the ways they are communicated--e.g., mean, median, mode, range, pie chart, frequency polygon; in the attempt to train discriminating viewers of statistics, the author illustrates how two different conclusions might be drawn from same set of data and how inaccurate conclusions can be made by failing to view all the statistics; on most pages a question is posed for the reader to consider, with answers provided at the end of the book; engrossing format includes clever explanations and amusing illustrations (NOTE: In the reviewed copy answers to questions 21 and 22 are reversed.)

Srivastava, Jan Jonas. NUMBER FAMILIES. Crowell, 1979. 41 p. $6.89. Grades 1-4

Attractive book encourages reader's active participation in the discovery of selected number families: the EVENS, the ODDS, the TIMES, the PRIMES, the SQUARES, and the TRIANGULARS; while the properties of some families may be beyond the intended reader's comfortable comprehension, the experiments may plant a seed in a fertile young mind; delightfully decorated with fetching ink-blot illustrations; sadly, the binding is not nearly so eye-catching as the jacket; useful for pleasure reading and instruction (Shelby City)

Whimbey, Arthur, and Jack Lochhead. PROBLEM SOLVING AND COMPREHENSION: A SHORT COURSE IN ANALYTIC REASONING. Franklin Inst. Pr., 1979. 258 p. $8.50 paper. Grades 9-12

Exciting, systematic volume encompasses whole scale of analytic thought: thinking power, reasoning errors, problem-solving strategies, verbal reasoning, translations of word problems, understanding analogies; presents step-by-step solutions of problems generally identified by students as "impossible"; conversational text should appeal to gifted and/or seriously ambitious student, especially in increasing self-confidence in test taking; useful for advanced classes, small groups, individuals, and for teachers who wish to peek into student thought processes (Shelby City)

BOOKS (FOR TEACHER USE)

Coble, Charles R., et al. MAINSTREAMING SCIENCE AND MATHEMATICS: SPECIAL IDEAS AND ACTIVITIES FOR THE WHOLE CLASS. Goodyear, 1977. 123 p. $8.95

Varied teaching activities organized in two parts--science and mathematics; explains objectives and necessary teacher preparation for implementing 180 activities in both science and math; for each week, the general overview and learning objectives are stated; reasonably comprehensive, activities cover beginning number ideas, computation, geometry, telling time, measurement, mathematics for the consumer; opportune resource for teachers who want to use an activity approach to teaching science and math in grades 3-9

BOOKS (REFERENCE)

Shapiro, Max S., ed. MATHEMATICS ENCYCLOPEDIA. Doubleday, 1977. 289 p. $5.95 paper. Grades 7-12

Thorough reference book that should be a welcomed addition to mathematics collections or classrooms; treats topics from *abacus* to *zero slope*, including any term that is obviously or remotely related to mathematics; concise explanations and clear illustrations employed; appendices devoted to 23 special reference tables; especially helpful for answering individual questions, such as "What does *area* mean?" (Shelby City)

BOOKS (SUPPLEMENTARY TEXTS)

Geier, Alvin E., and Nathaniel Lamm. MATHEMATICS AND YOUR CAREER. AMSCO Sch., 1978. 382 p. $3.50. Grades 9-12

Unique arrangement of material usually included in a high school general math course (whole number operations, decimals and percents, measurement, algebra, geometry, statistics); each unit focuses on a career cluster identified by the U.S. Department of Labor; introduction of a particular cluster is followed by brief historical discussion of relevant area of math; numerous examples of each type of problem in increasing difficulty, answers to "try-out" sections in the book; "overtime" and "after-hours" problems are challenging and fun; career-oriented word problems; numerous cartoons throughout

Jacobs, Zeney P., et al. COMPUTER PROGRAMMING IN THE BASIC LANGUAGE. Allyn, 1978. 460 p. $7.20 paper. teacher's guide $2.70 paper. Grades 9-12

Comprehensive guide to programming in BASIC; includes discussion of the limitations versus the capabilities of computers, elements of BASIC, DATA statements, flow charts and branching, loops, accumulating and output arrangements, functions ABS, SQR, INT, RND, SIN and LOG, subscripts, alphamerics in and out, arrays, subroutines, and matrix algebra; valid, lucidly expressed information; crisp reproductions of print-outs, black-and-white photographs help establish computer awareness; teacher's guide includes introduction, lesson plans, answers to problem sets, but flow charts lack sharpness; appropriate purchase only where computer is accessible (Shelby City)

Thompson, Linda L. GENERAL MATHEMATICS WITH APPLICATIONS. Bruce, 1977. (Available from Glencoe.) 710 p. $7.47. teacher's ed. $8.97. solutions manual $2.25 paper. Grades 9-12

Textbook contains math content normally taught in a general math/consumer math type course; contains a variety of exercises and appealing problems that will interest students of varying ability levels; attractively presented, using up-to-date information

Books (Supplementary Texts) in a Series

CAMBRIDGE-MATHEMATICS PROGRAM. Cambridge Bk., 1978. 2 levels each containing 1 student text $5.99, teacher's annotated ed. $5.69 paper, 1 student work-a-text $4.50 paper, teacher's annotated ed. $4.26 paper. Grades 7-8
Titles: ACHIEVE WITH MATHEMATICS; SUCCEED WITH MATHEMATICS

Books 7 and 8 in a standard 1-8 math program; special features include math used in daily living in Book 7 and career focus in Book 8; teacher's editions outline skills students must possess prior to working in each unit; extensive testing program includes diagnostic/placement and review tests

BOOKS (WORKBOOKS)

Bramson, Morris. ALGEBRA: AN INTRODUCTORY COURSE. AMSCO Sch., 1978. 308 p. $4. Grades 8-10

Consumable workbook moves from the understanding and use of formulas to working with inequalities; concepts are introduced, solutions to several illustrative problems are detailed, practice exercises are given; frequent backtracking to review previously discussed concepts; Appendix I reviews basic computation using whole numbers from place value through averaging; Appendix II reviews sets

Dressler, Isidore. CURRENT MATHEMATICS: A WORK-TEXT. BOOK I. AMSCO Sch., 1977. 369 p. $4.60. Grades 7-11

Carefully prepared, consumable workbook treats such topics as numbers and numerals, whole numbers, non-metric geometry, factoring, rational numbers, decimals, percents, measurement, graphs, and integers; author delicately treads the fine line distinguishing marketplace and pure mathematics; used in a lab for remedial purposes, topics can be selected at random, according to need, with no loss of continuity; author has achieved his objective of producing a reasonable, readable text (Shelby City)

Schor, Harry, and Alan Ginsberg. COMPUTATION WORKSHOP. Globe, 1977. 213 p. $3.40. Grades 7-12

Comprehensive, lucid review of arithmetical computation that offers instruction and/or review of such topics as numeration, fractions, decimals, percents; instructive material is straightforward without being condescending and is illustrated by step-by-step examples; even though material is sequenced, user can easily select exercises in the areas of need; handy for remedial instruction, especially adaptable for individual use (Shelby City)

Books (Workbooks) in a Series

Howett, Jerry. THE CONTEMPORARY MATH PROGRAM: THE REAL WORLD OF ADULT MATH. Contemp. Bks., 1977. (Available from Braswell.) each 138 p. each $2.25. Grades 9-12

Titles: NUMBER POWER: ADDITION, SUBTRACTION, MULTIPLICATION, DIVISION;
NUMBER POWER 2 (PRE-GED LEVEL): FRACTIONS, DECIMALS, PERCENTS

Designed to strengthen skills in fundamental areas; Book 1 focuses on addition, subtraction, multiplication, division of whole numbers; Book 2 deals with franctions, decimals, percents; each book includes pre- and post-tests, examples, and exercises; each skills inventory (test) contains a chart designating specific pages to study for specific areas of weakness

Kaplan, T. WORD PROBLEMS IN MATH: BOOKS A, B, C, D. Scholastic, 1978. each 32 p. each $.95. teacher's eds. Grades 3-6

Promising series of illustrated, consumable workbooks focusing on the oft-neglected area of solving word problems; user is skillfully led through the process of extracting relevant facts, determining appropriate operation, checking the reasonableness of solutions; that there usually is more than one way to solve a problem is emphasized--for example, some problems may be solved by either addition or subtraction, depending on the individual's perspective; well-annotated teacher's editions provide answers and instructions; appropriate for entire class, individual enrichment, remediation (Shelby City)

VISUAL-THINKING SKILLS FOR READING AND MATH. Described on Reading Advisory List

BOOKS (WORKBOOKS) WITH RECORDINGS

MATHEMATICAL CONCEPT ACTIVITIES. Media Matls., 1977. 1 workbook 44 p., 1 cassette tape $9.95. (Available from Carolina School.) Grades 3-6

Program designed for individualized or group instruction; reproducible activity sheets contain lessons on such concepts as numeration, sets, properties, fractions, measurements; each lesson also contains an activity page which can be accompanied by the entertaining and instructive cassette; usable for reinforcement or introduction of concepts; answer key provided in back of workbook

MATHEMATICS CONCEPTS. Media Matls., 1977. (Available from Carolina School.) 1 workbook 44 p., 1 cassette tape $9.95

Clearly directed program designed for teaching units on sets, tens and ones, addition and subtraction, hundreds and thousands, geometry and fractions, measurement, money; reproducible activities provided for each unit are on attractive, somewhat crowded, pages; each unit contains one activity page that is accompanied by cassette tape which has easy-to-follow instructions; flexible usage--for individual or group study

READING GRAPHS AND TABLES. Media Matls., 1977. (Available from Carolina School.) 1 workbook 44 p., 1 cassette tape $9.95. Grades 4-6

Attractively illustrated workbook organized into units on tables, picture graphs, horizontal bar graphs, vertical bar graphs, line graphs, rectangle area graphs, circle area graphs, review and assessment; each unit consists of 51 lessons, the first of which is keyed to the cassette which employs music and various voices to interest students; other 4 lessons provide practice with the skill introduced by the cassette-related lesson; answer key provides answers for exercises in the lessons; practical, easily implemented material

USING MATHEMATICAL CONCEPTS. Media Matls., 1977. (Available from Carolina School.) 1 workbook 44 p., 1 cassette tape $9.95. Grades 6-9

Stimulating program organized into 8 units: Numeration and Numbers; Whole Numbers and Sets; Fractions; Fractions, Ratio, and Proportion; Decimals; Fractions, Decimals, Percents; Geometry; and Mathematical Sentences; each unit consists of 5 lessons, the first of which is keyed to the cassette; other 4 lessons provide practice with the skill introduced by the cassette; attractively illustrated workbook, varied voices on cassette and interesting activities should appeal to student; answer key provided in back of book

DUPLICATING MASTERS

ENRICHMENT ROUSERS: METRIC FUN. Ideal, 1977. 24 duplicating masters $5.25. Grades 7-12

An interesting collection of games and activities that require the student to actually perform measurements using metric tools; good for enrichment or as individualized activities

ENRICHMENT ROUSERS: THE METRIC SYSTEM. Ideal, 1977. 24 duplicating masters $5.25. Grades 7-12

An interesting series of activities to enrich learning and understanding of the metric system; best used by teachers to individualize instruction--all activities are not for everyone

FILMS (16MM)

SPORTS GO METRIC. Ed. Film. 16mm. 15 min. sd. guide color $270. Grades 5-9

Story of the tortoise and the hare employed as a device for inciting fans (viewers) to "think metric"; cartoon presentation covers use of metric in baseball, football, track; although this presentation offers little metric information, it is an honest attempt at encouraging viewers to forget about converting metrics into the English system; once this psychological barrier is overcome, the system is much easier to use and understand

FILMSTRIPS (SILENT)

METRIC MEASURE IS IN YOUR FUTURE. United Learning, 1978. 6 color filmstrips, guide $48. Grades 5-10

Titles: WHY METRIC?; LINEAR MEASURE AND DISTANCE; SURFACE MEASURE AND AREA; CAPACITY MEASURE AND VOLUME; WEIGHT AND MASS; PUTTING IT ALL TOGETHER

Succinct program explains characteristics and existing need for employing the metric system in the United States; captioned filmstrip drawings accurately illustrate procedures for metric conversion and depict people using metric instruments; small teacher's guide cites filmstrips' objectives and includes "thought questions," activities, and projects

FILMSTRIPS (SOUND)

Filmstrips (Sound) in a Series

LIFESKILLS. EVERYDAY MATH: TABLES, GRAPHS, AND SCALE. SVE, 1979. 1 vinyl binder containing 4 color filmstrips, 4 cassette tapes, 38 tests, answer keys, guide $99. Grades 7-10

Titles: MATH: TABLES; MATH: TYPES OF GRAPHS; MATH: USING GRAPHS; MATH: SCALE

Well-developed, enjoyable series stresses the importance and usefulness of reading and making tables, picture graphs, line graphs, bar graphs, circle graphs, and scales; also demonstrates and explains how graphs can be misleading; timely photography depicts realistic urban situations, contains racial and ethnic balance; teacher's guide includes objectives, summaries, scripts, pre- and post-filmstrip questions, activities; reproducible skill extenders and word problems included; useful for individualized or classroom instruction; first filmstrip could be used for remedial students (Cumberland County)

MEASURING WITH METRICS. McGraw-Hill Films. 4 color filmstrips, 4 cassette tapes, guide $76. with disc recordings $76. Grades 2-4

Titles: LENGTH; CAPACITY; WEIGHT; TEMPERATURE

Designed to introduce young children to concepts and vocabulary of the metric system; accurately applies metric measurement to length, weight, capacity, temperature; appealing exploration of system shows young children involved in measurement activities at home and in school; guide gives objectives, pre- and post-viewing activities which involve student in measuring

GAMES

EXPONENT DICE. Ideal, 1978. 1 game board, 2 dice, 40 red plastic discs, 40 green plastic discs $4.95. Grades 6-9

Game designed for two students to provide practice in squaring and cubing numbers; easy-to-follow directions for playing the game are printed in English and Spanish inside lid of box; little teacher explanation necessary

GET TEN: A GAME OF ADDITION FACTS AND PROBABILITY. Ideal, 1977. 10 game cards 6" x 10", 4 spinners, 200 whole and half chips, 1 box plastic marking sticks, guide $8.50. Grades 1-5

Manipulative game, with clear and easy directions, designed to reinforce addition combinations; whole number facts to 12, 1/2's and decimals are used in variations of play; players practice strategy and meet elements of probability as they must determine the number of chips to be drawn from the "bank" and placed on a card; each player strives for 10 without "going over"; includes suggestions for alternate play; cards are plastic-coated poster board, but chips are not coated; box has no

GET TEN: A GAME OF ADDITION FACTS AND PROBABILITY. (Cont'd.)

provisions for separate storage of chips and half chips (a total of 200); suitable for small groups and/or lab; guide printed in English and Spanish (Shelby City)

Games in a Series

METRIC GAMES. Nasco, 1977. 7 games each sufficient for 2-3 players with instruction sheets, 30 sheets of pre-printed cards $22.50. each game $3.50. Grades 4-9
Titles: METRIC PREFIX CONCENTRATION; METRIC PREFIX MATCHO; METRIC PREFIX STRATEGY; METRIC SUMS (CAPACITY); METRIC SUMS (LENGTH); METRIC TEMPERATURE MATCHO; THREE-PERSON METRIC SUMS (LENGTH)

Instructive series of games designed for improving comprehension of metric system; attractive, legible, sturdy materials treat subject matter in up-to-date fashion; simple, concise instructions for each game increase potential for use in small, independent groups; for drill and practice rather than for pleasure

KITS

INDIVIDUALIZED MATHEMATICS PROGRAM: LEVEL C. EdITS, 1977. 280 MATH PAKS, 200 post-tests, 35 student objective checklist folders, 2 student progress charts, 35 TABS-MATH booklets, 70 TABS answer sheets, 3 answer books, 1 TABS answer key, 1 teacher's manual $160. Grades 4-9
See publisher's literature for individual prices.

Meticulously structured program provides individual learning diagnosis, instruction prescription via publisher-scored criterion referenced tests, progress assessment, print-out analyses, single-objective student MATH PAKS; treats 64 objectives grouped into three categories: Arithmetic Skills (whole numbers, rational numbers, irrational numbers, literal numbers), Geometry-Measurement-Application (perimeter and time, linear, volume measurement), Modern Concepts (sequences, inequalities, number properties); contact with publisher's representative suggested (Shelby City)

USING CONSUMER MATH. Hampden, 1977. (Available from Stone's.) 10 cassette recordings, 300 activity booklets (30 copies of each lesson), 10 reproducible post-tests, guides $99.50. Grades 10-12
Titles: BUYING THE FOOD YOU NEED; CAN YOU AFFORD TO OWN A CAR?; DISCOUNT: 50% OFF!; HOW MUCH DO I HAVE TO SPEND?; USING A CHARGE ACCOUNT; PAYING BY CHECKS; RECONCILING YOUR CHECKING ACCOUNT; SAVING AND INVESTING; BUY OR RENT?; PROTECTION THROUGH INSURANCE

Organized program offers practical exercises in consumer education, provides practice in fundamental consumer math skills; after each cassette lesson of approximately 30 minutes, student is provided with follow-up activities and a post-test; guide includes objectives, summaries, notes, activities, answer keys; suitable for individualized or group instruction

Kits in a Series

STATISTICS. Prentice-Hall Media, 1978. 5 units each containing 1 color filmstrip, 1 cassette tape, 1 student workbook, 1 set of slides each unit $55. Grades 11-12
Titles: MEASURES OF CENTRAL TENDENCY, PART 1 and PART 2; MEASURES OF DISPERSION, PART 1 and PART 2; ELEMENTARY PROBABILITY THEORY, PART 2
See producer's literature for additional titles in the series.

Clearly presented, acceptably paced program on statistics; attractive visuals, which are primarily instructive in purpose, contain readable print, concise explanations; accompanying workbooks include synopses, follow-up exercises, answer keys; practical for individualized instruction, mathematics lab; most useful for students who have completed Algebra II

TESTS

Brigance, Albert H. BRIGANCE DIAGNOSTIC INVENTORY OF BASIC SKILLS. Described on Reading Advisory List

ICRT MATH BASICS+: INDIVIDUALIZED CRITERION REFERENCED TESTING. Ed. Prog., 1977, 1978. test booklets #407-#499 (pkg. of ten) each $3.50, placement tests levels A-E (pad of 50) each $3., student profile folder (pkg. of 10) $3.95, guide $5.95. Grades 1-6

See publisher's literature for complete program.

Program designed to provide testing continuum and alternative continua for exploring what a student knows and needs to know before advancing to next level; student profile folder identifies specific objectives covered by the individual criterion referenced test booklets--e.g., measurement, addition, subtraction, fractions, ratios, geometric concepts; sufficiently flexible to be customized for classroom or system-wide testing; contact with company representative suggested (Shelby City)